

FIG. 1

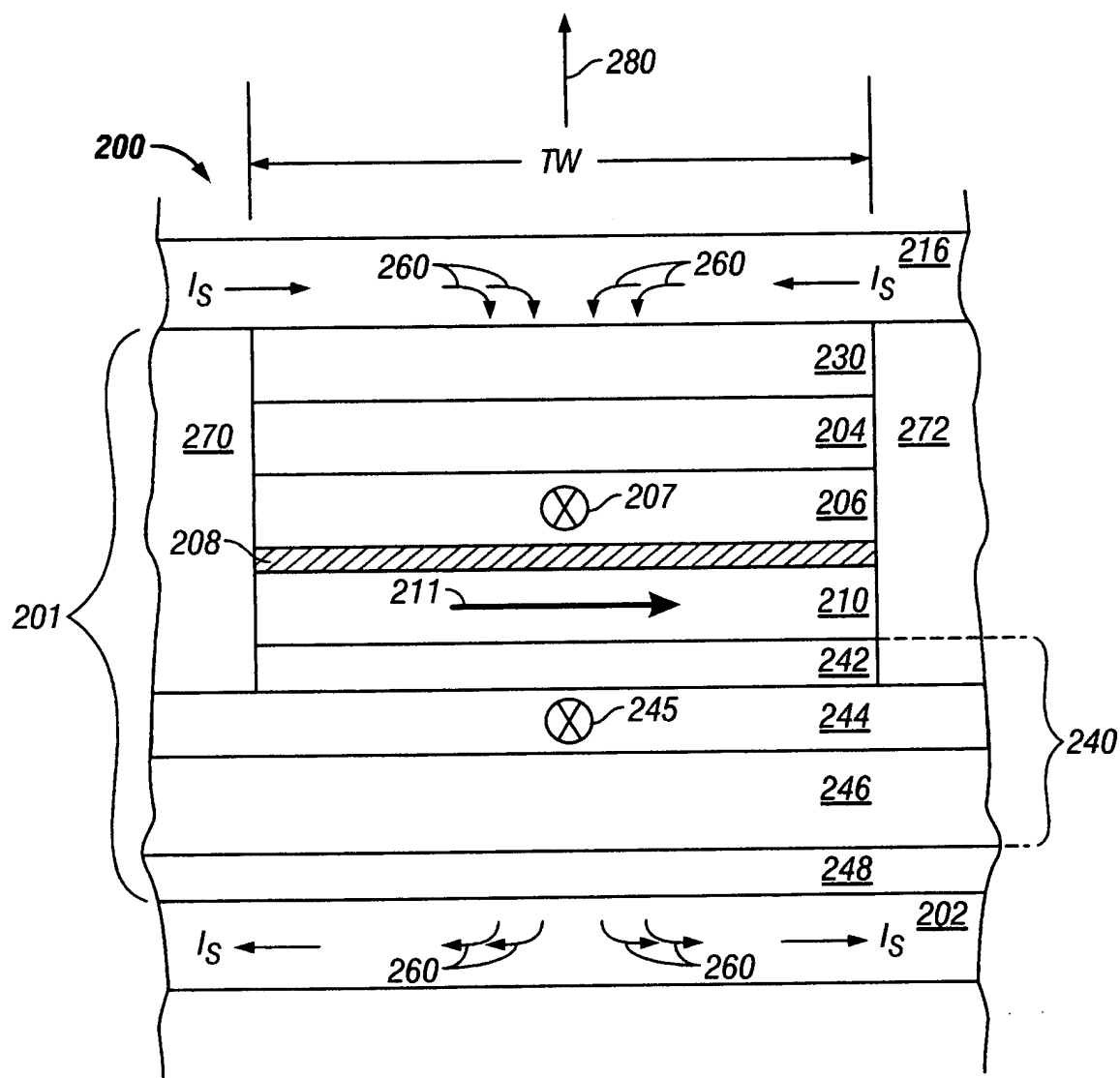
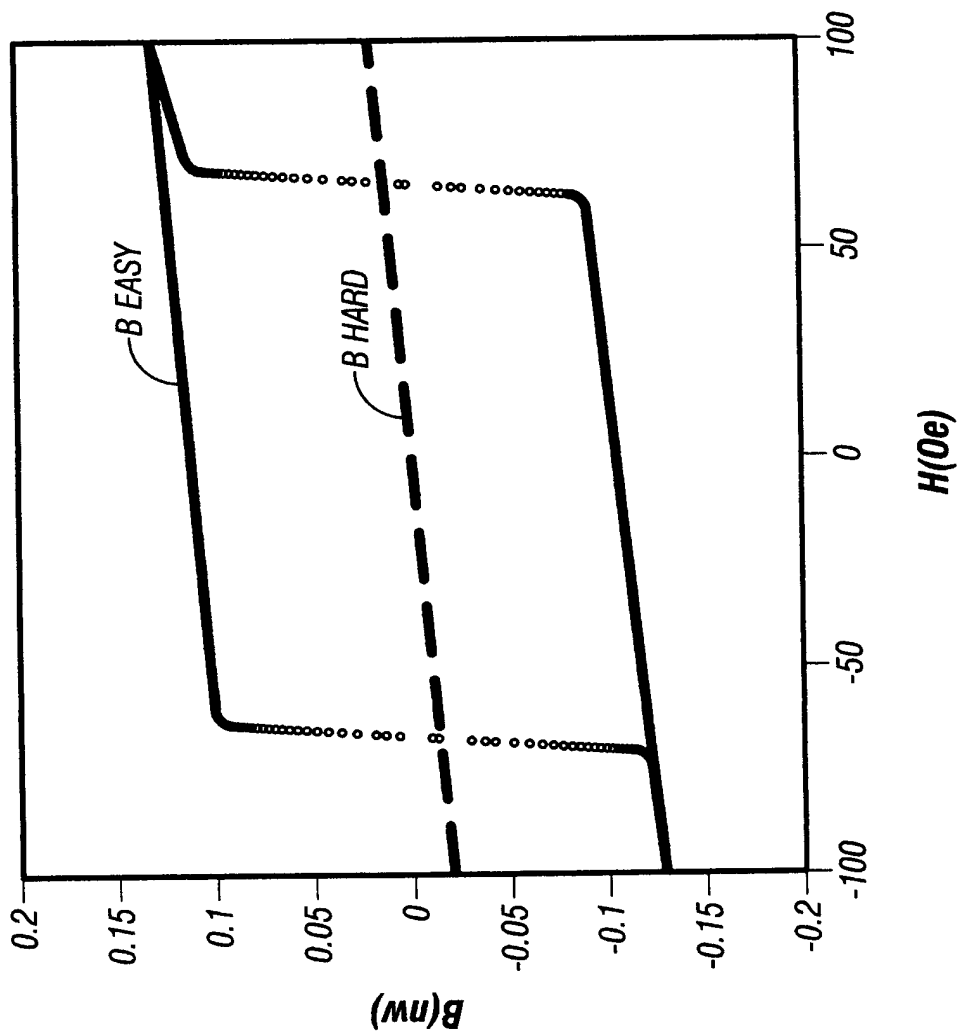


FIG. 2

<i>Capping Layer</i>
<i>20Å Co₈₀ Fe₂₀ or 40Å Ni₈₀ Fe₂₀ Free Layer</i>
<i>Pt Mn Spacer Layer</i>
<i>20Å Co₈₀ Fe₂₀ Biasing Layer</i>
<i>Pt Mn or IrMn Antiferromagnet</i>
<i>Underlayer</i>
<i>Si or Glass</i>

FIG. 3



HARD DIRECTION =
ANNEAL DIRECTION

PtMn SPACER = 20Å
FREE LAYER = Co₈₀Fe₂₀ 20Å

FIG. 4

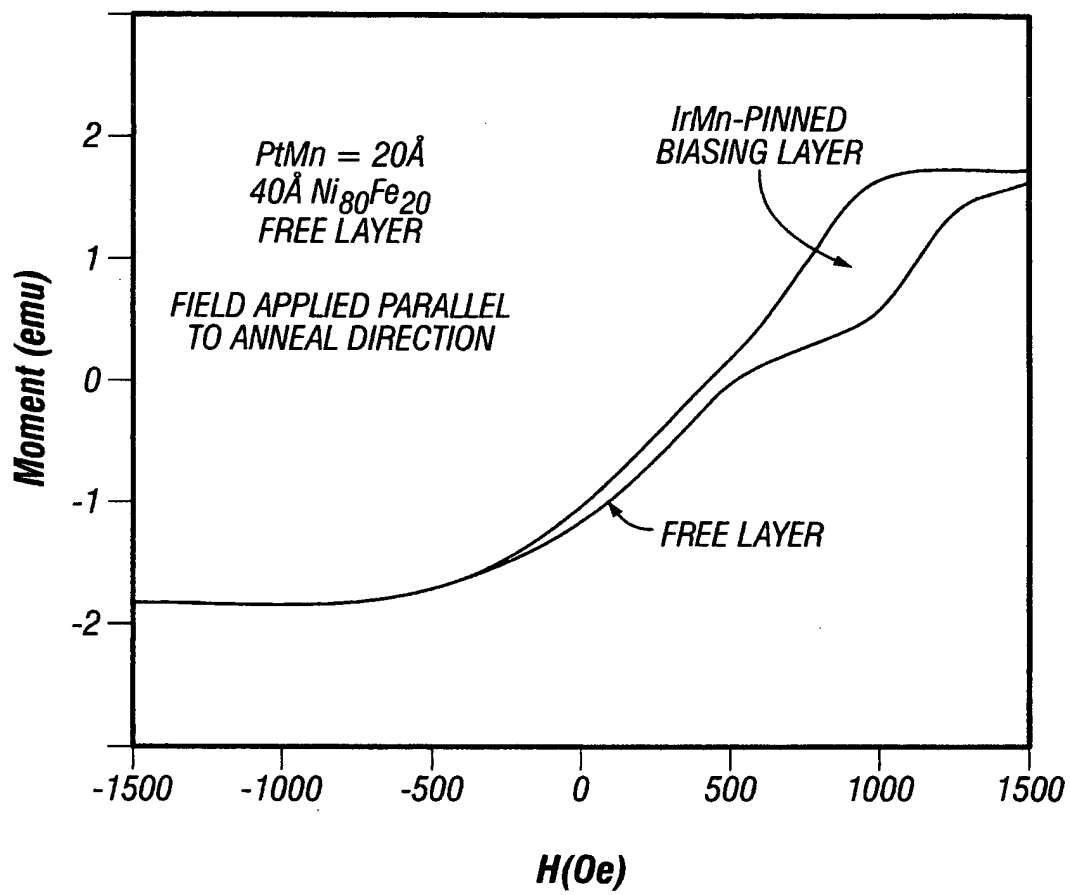


FIG. 5

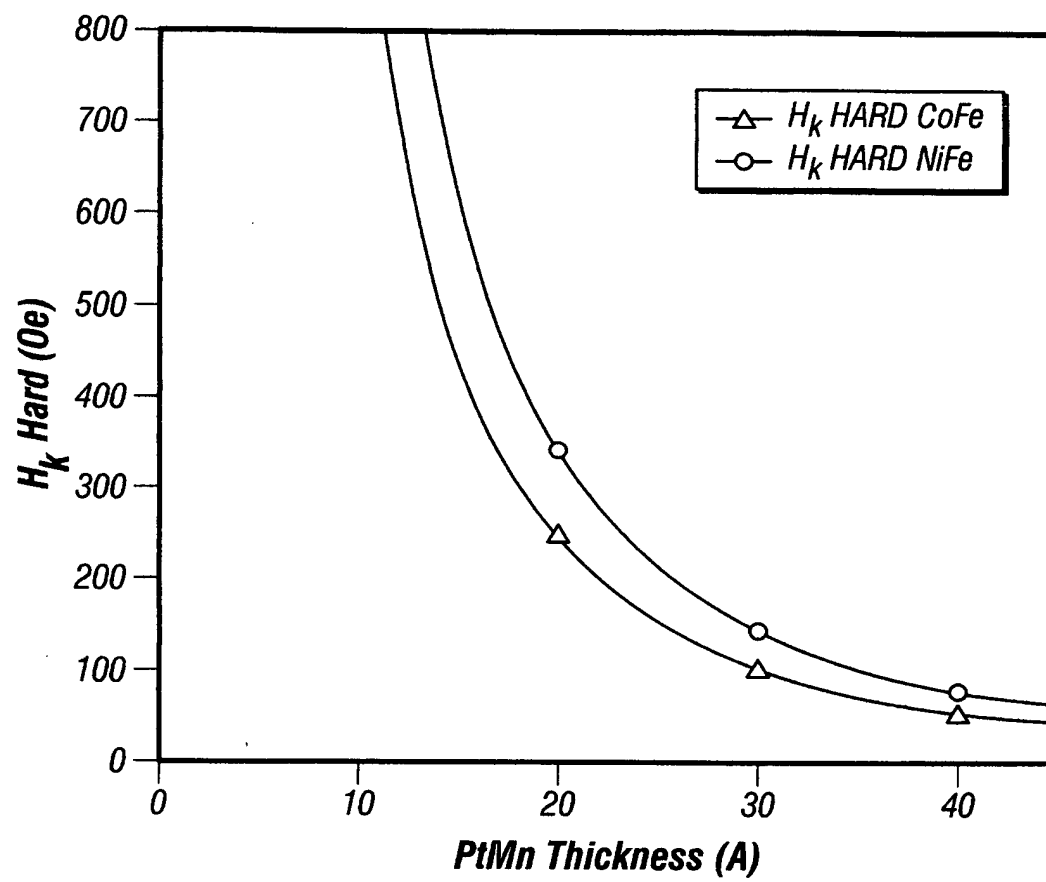


FIG. 6